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NOTICE OF ALLOWANCE AND FEE(S) DUE

23117

7590

03/05/2010

NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203 EXAMINER

HUYNH, KHOA B

ART UNIT PAPER NUMBER

2462

DATE MAILED: 03/05/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584.491	04/10/2007	Aimo Tuoriniemi	2380-1343	8554

TITLE OF INVENTION: METHOD FOR CANDIDATE ACCESS ROUTER CAPABILITY DISCOVERY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/07/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
10/584,491	04/10/2007	-	Aimo Tuoriniemi			2380-1343	8554
TITLE OF INVENTION	: METHOD FOR CANI	DIDATE ACCESS ROUT	TER CAPABILITY DIS	COVERY			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	PREV. PAID ISS	UE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	06/07/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
HUYNH,	KHOA B	2462	370-468000				
1. Change of correspond CFR 1.363).		`	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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☐ "Fee Address" ind	ication (or "Fee Address"	" Indication form					
PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or	type)			
PLEASE NOTE: Uni	less an assignee is ident h in 37 CFR 3.11. Com	ified below, no assignee pletion of this form is NO	data will appear on the	e patent. If an assig	nee is i	dentified below, the do-	cument has been filed for
(A) NAME OF ASSI	•		(B) RESIDENCE: (CI	ě .	COUN	ΓRY)	
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Please check the appropr	rate assignee category or	categories (will not be pi	rinted on the patent):	Individual 🖵 (Corporat	ion or other private grou	up entity Government
4a. The following fee(s)	are submitted:	41			any pre	viously paid issue fee sl	hown above)
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a. Applicant claim	s SMALL ENTITY statu	is. See 37 CFR 1.27.				TITY status. See 37 CF.	
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/584,491	04/10/2007	Aimo Tuoriniemi	2380-1343 8554		
23117 7.	590 03/05/2010		EXAMINER		
NIXON & VAN	DERHYE, PC	HUYNH, KHOA B			
	BE ROAD, 11TH FLO	OR	ART UNIT	PAPER NUMBER	
ARLINGTON, VA	A 22203		2462		
			DATE MAILED: 03/05/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 335 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 335 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/584,491	TUORINIEMI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	KHOA HUYNH	2462	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate communication is supplication is supplication.	n this application. If not included unication will be mailed in due course. TH	
1. \boxtimes This communication is responsive to <u>Amendment received</u>	on 01/14/2010.		
2. 🔀 The allowed claim(s) is/are 14-15, 17 (to be renumbered a	s 1-3 <u>)</u> .		
 3.	,	or (f).	
2. ☐ Certified copies of the priority documents have		on No	
3. ☐ Copies of the certified copies of the priority documents have			20
International Bureau (PCT Rule 17.2(a)).	cuments have been receive	a in this national stage application from the	IC
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			:
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review	v (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s)	5 🗆 Nation of the	Connect Detect Annilled Con	
1. Notice of References Cited (PTO-892)		formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No.	ummary (PTO-413), Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>11/03/09</u>; <u>11/09/09</u> 	7. ⊠ Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9.		
/K. H./	/Seema S. Rad		
Examiner, Art Unit 2462		tent Examiner, Art Unit 2462	

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DETAILED ACTION

1. This Office Action is in response to the Applicants' amendment received on 01/14/2010.

Claim Status

- 2. Claim 14, 17 are amended.
- 3. Claim 1-13 and 16 are cancelled.
- 4. Claims 14-15 and 17 are currently presenting for examination, with claim 14 being independent.
- 5. Claims 14-15 and 17 are ALLOWED.

EXAMINER'S AMENDMENT

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Hyung Sohn on 02/16/2010.

The application has been amended as follows:

For claim 14, please amend as indicated below.

Page 3

For claims 15 and 17, please follows applicants' after final amendment on 01/14/2010. These claims are unchanged by this Examiner's amendment.

14. (Currently Amended) In a multi access system comprising plural access routers, a method of selecting a target access router among said plural access routers, said method comprising:

a user terminal connecting with a current access router using a layer 2 communication service, said access router being one of said plural access routers;

said user terminal receiving layer 2 based router capability information transmitted from said current access router over said layer 2 communication service, said router capability information including capability information of said plural access routers:

said user terminal selecting said target access router for access to said multiaccess system among said plural access routers based on said router capability information using a target access router selection algorithm,

said user terminal activating plural layer 2 communication interfaces;
said user terminal listening to broadcasts of said router capability information
from two or more of said plural routers over said activated plural layer 2
communications interfaces, no IP control plane being used in said layer 2 broadcasting;
and

said user terminal selecting said current access router for access to said multi access system among based on said broadcasted router capability information using said target access router selection algorithm,

wherein no IP control plane is used in said layer 2 communication service between said access router and said user terminal, and

wherein said step of said user terminal connecting with said current access router occurs after said current access router is selected,

a user terminal activating plural layer 2 communication interfaces;

said user terminal listening to broadcasts of router capability information of said plural access routers over said plural layer 2 communication interfaces, wherein said router capability information are broadcasted without using IP control plane;

said user terminal selecting a current access router for access to said multi access system among said plural access routers based on said router capability information received over said plural layer 2 communication interfaces using a target access router selection algorithm;

said user terminal connecting with said current access router using a layer 2 communication service and receiving said router capability information of said plural access routers transmitted from said current access router over said layer 2 communication service, wherein said layer 2 communication service between said current access router and said user terminal takes place without using IP control plane;

and said user terminal selecting said target access router for access to said multi access system among said plural access routers based on said router capability

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information received from said current access router using said target access router selection algorithm, wherein said current access router is included in said plural access routers.

Allowable Subject Matter

7. Claims 14-15 and 17 are ALLOWED.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHOA HUYNH whose telephone number is (571) 270-7185. The examiner can normally be reached on Monday - Friday: 10:00 AM - 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SEEMA RAO can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2462

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Seema S. Rao/ Supervisory Patent Examiner, Art Unit 2462

/K. H./ Examiner, Art Unit 2462